

SunTera

5 MWh UTILITY BATTERY SYSTEM

SunTera from Jinko ESS represents the next generation of Utility-Scale Energy Storage Systems.

Boasting over 5MWh inside our customised 20 foot container, the new SunTera has enhanced design features ranging from the inherent safety afforded by the LFP chemistry to the advanced liquid cooling, state-of-the-art "detection and response" as well as the intelligent provision of data for O&M services.

SunTera's modular design enables flexible deployment to satisfy a wide variety of demanding grid functions and emerging application scenarios, delivering true value to customers and users of the grid.



Key Features

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Advanced Liquid "Cool"ed

Refined pipeline design, achieving pack temperature differential of $\leq 2.5^{\circ}$ C.

Multiple cooling modes and auxiliary controls, significantly reduce power consumption.



Safe

Multi-level protection from cell to system provides early warnings of anomolies for enhanced safety and longer terms trends.

Dedicated ventilation systems triggered by gas, heat and smoke detectors are linked to fire suppression systems to ensure maximum protection.



Efficient & Reliable

PACK/RACK modular design minimizing downtime and boosting system reliability.

Advanced cluster-level management enhances RTE and overall system efficiency.



Intelligent

Smart control management, real time monitoring & online diagnostics ensure highly efficient O&M services.

Compact design with side-by-side layout enables enhanced energy density at every level.

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Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in datasheets are subject to change without notice.

SunTera 5MWh JKE-5015K-2H-LAA www.jinkosolar.eu



Applications



BESS in Power Generation

Supports the wide scale deployment of renewable energy and provides ancillary services.

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BESS in Power Networks

Enhances the power grid, reducing infrastructure costs and enables a stable network



BESS in Power Transmission & Distribution

Can be configured and equipped to provide energy for areas without electricity as part of a micro-grid.

Specifications

| Battery Data | |
|-------------------------------|-------------------------------------|
| Type of Cell | Lithium Iron Phosphate (LFP) |
| Capacity (BOL) | 5 MWh |
| Cell Parameters | 3.2V/314Ah |
| Battery Voltage | 1331.2V (nominal), 1497.6V (charge) |
| Max. Charge / Discharge Power | 0.5P or 0.25P |
| Depth of Discharge | 95% |

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| Dimensions | 6058×2438×2896mm |
|---------------------------|---|
| Weight | ≈42000 kg |
| Degree of Protection | Site specific, up to C5 (EN ISO 12944) |
| Cooling Method | Liquid Cooling |
| Environmental Temperature | -30~55°C |
| Environmental Humidity | ≤95% RH, Non-Condensing |
| Altitude | ≤2000m / <4000m (optional, derating) |
| IP Grade | IP55 |
| Communication Interface | Ethernet / Modbus / Fibre (optional) |
| Communication Protocol | Modbus |
| Certificates | IEC62619, UL1973, UL9540A, IEC63056, IEC61000, UN38.3 |
| Installation Location | Outdoor |

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